Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start		Rating **	Α	Issue No.		1	
LM End		Issue Type +	Ма	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Emergeno	y Supplies &			0		0
item	Equipmen	it			0		0
DWR ID DWR_RD1001_01_s _ 2012_1							
		Comn	nent Coc	de			
		Inspecto	or Comm	nent			
The LMA h	nas flood fi	ght supplies o	n hand a	at their distr	ict c	office.	

No Photos

LM Start		Rating **	Α	Issue No.		2		
LM End		Issue Type +	Ma	Location *		N/A		
Category Earthen Levee				GPS La	atitud	le/Longitude		
Calegory				Start		End		
Flood Preparedness & Training					0		0	
пеш			0		0			
DWR ID DWR_RD1001_01_s _ 2012_2								
Comment Code								

No Photos

Inspector Comment

The LMA participates in the flood fight class put on by RD784 and DWR annually.

LM Start		Rating **	Α	Issue No.		3		
LM End		Issue Type +	Ma	Location *	N/A			
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Operations & Maintenance				0		0	
item	Manuals				0		0	
DWR ID	DWR_RD1	001_01_s _ 201	2_3					
		Comn	nent Cod	de				
Inspector Comment								
The LMA I	nas a copy	of the O&M n	nanuals	at the distri	ct of	fice.		

No Photos

* Location LS : Land Side WS: Water Side

N/A: Not Applicable

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	0.01	Rating **	Α	Issue No.		11	
LM End	4.11	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee	GPS La	atitud	e/Longitude		
Calegory				Start End			
Item	Vegetation				82 °	38.970629°	
item				-121.4702	63°	-121.534464 °	
DWR ID	DWR_RD1	001_01_f _ 201	8_11				
Comment Code							
V1 : Contr	ol annual c	rass and wee	ds on th	e levee slor	oes :	and	

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1 : FA_2018_RD1001_36_11_20181113_00020.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.01	Rating **	Α	Issue No.		12				
LM End	4.11	Issue Type +	Ма	Location *		WS				
Category	evee	GPS La	atitud	le/Longitude						
Calegory	ategory					End				
Item	Vegetatio	n		38.9801	82°	38.970629°				
пеш	-121.470263 ° -121.534464									
DWR ID DWR_RD1001_01_f _ 2018_12										
		_								

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_36_12_20181113_00019.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	3.09	Rating **	Α	Issue No.		19	
LM End	3.09	Issue Type +	Ma	Location *		LS	
LIVILIIU		**	ivia				
Category	Earthen L	evee		GPS La	atituc	le/Longitude	
Catogory				Start		End	
Item	Trim / Thi	n Trees		38.9656	60°	38.965660°	
пеш				-121.5205	-121.520548°		
DWR ID DWR_RD1001_01_s _ 2016_19							
		Comn	nent Cod	de			
T1: Trim t	rees to at I	east five feet	above g	round level.			
		Inspecto	or Comm	nent			
Limbs are removed from stump for access and visibility, Fall 2018.							

Photo 1 of 2: FA_2018_RD1001_36_19_20181113_00021.jpg
第二次不是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
一种是国际情况,这个位于一个国际企 业。
京 · 图 · 图 · 图 · 图 · 图 · 图 · 图 · 图 · 图 ·

View of a tree that limbs are trimmed and trunk sprayed to prevent any future growth, Fall 2018.

 LM Start
 3.09
 Rating **
 A
 Issue No.
 19 (cont)

 LM End
 3.09
 Issue Type +
 Ma
 Location *
 LS

Photo 2 of 2: FA_2018_RD1001_36_19_20180918_00013.jpg



View of a tree that need limbs trimmed. Fall 2017.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	0.00	Rating **	Α	Issue No.		7	
LM End	3.64	Issue Type +	Ма	Location *		LS	
Category	evee	GPS La	atitud	le/Longitude			
Calegory	Category					End	
Item	Vegetatio	n		38.9712	21 °	38.965811°	
пеш			-121.4740	27°	-121.533591 °		
DWR ID DWR_RD1001_02_f _ 2018_7							
		C		l a			

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_35_7_20181113_00028.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.00	Rating **	Α	Issue No.		8	
LM End	3.64	Issue Type +	Ма	Location *	WS		
Category	Earthen L	evee	GPS Latitude/Longitude				
Category				Start		End	
Item	Vegetatio	n		38.9712	22 °	38.965811°	
пеш			-121.47402	28°	-121.533591 °		
DWR ID	DWR_RD1	001_02_f _ 201	8_8				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_35_8_20181113_00029.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2018.

LM Start	0.32	Rating **	С	Issue No.		14	
LM End	0.32	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	titud	le/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.9745	42 °	38.974542	c
item				-121.4774	38°	-121.477438	c
DWR ID	DWR_RD1	001_02_s _ 201	8_14				

Comment Code

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

Tree has its limbs trimmed for access and visibility, Fall 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	1.33	Rating **	М	Issue No.		4	
LM End	1.36	Issue Type +	Ma	Location *		WS	
Category	Suppleme	ental		GPS L	atitud	le/Longitude	
Calegory				Start		End	
Item		ACE Erosion S	Survey,	38.969740°		'40 ° 38.969640	
пеш	DRAFT			-121.494327 °		27 ° -121.494829 °	
DWR ID	DWR_RD1	001_02_f _ 201	8_4				
		Comn	nent Cod	de			
		Inspect	or Comm	nent			
2017 Site	ID: YAS 1.	7 L					

Status: Eroding

2017 Field Notes: No observed change.

Site History: 2011 - New erosion site. Steep eroding slope. Fairly old

scarp with vegetation growth.

LM Start	2.28	Rating **	М	Issue No.		55	
LM End	2.28	Issue Type +	Ma	Location *			
Category	Suppleme	upplemental GPS Latitude/Longitude					
Category		Start En					
Item	DWR UCI	P LMA Respo	onsibility	38.9674	03 °	38.967403°	
пеш				-121.5109	53°	-121.510953°	
DWR ID	22543					·	
	Comment Code						

Inspector Comment

FS_ID:14008 DS_ID:22543 EP_NO: N/A

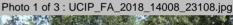
Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside pits on pipe due to corrosion (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe

through the levee, 15 feet below the crown. Flap gate and concrete Ushaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento

O&M Manual 141.1, August 1955, (Station 67+75)].

FS Date: 5/23/2013





WS- overview of waterside of the levee.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	2.28	Rating **	М	Issue No.		55 (cont)
LM End	2.28	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory			Start		End	
Item	DWR UCI	P LMA Respo	onsibility	38.96740	3°	38.967403°
пеш				-121.51095	3°	-121.510953°
DWR ID	22543					

Inspector Comment

Comment Code

FS_ID:14008 DS_ID:22543 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside -

pits on pipe due to corrosion (P. Amatya - DWR UCIP)

FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete Ushaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento

O&M Manual 141.1, August 1955, (Station 67+75)].

FS Date: 5/23/2013

LM Start	2.28	Rating **	М	Issue No.	55 (cont)
LM End	2.28	Issue Type +	Ма	Location *	

Photo 2 of 3: UCIP_FA_2018_14008_23107.jpg



WS- outfall pipe with flap gate in concrete wing wall.

Photo 3 of 3: UCIP_FA_2018_14008_23106.jpg



LS- slide gate in inlet pipe structure

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	3.58	Rating **	С	Issue No.		24	
LM End	3.58	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee					e/Longitude	
Category				Start		End	
Item		Emergency Supplies & 38.965345°					
пеш	Equipment -121.532615 ° -121.53						٥
DWR ID	DWR_RD1	001_02_f _ 201	6_24				
		Comn	nent Cod	de			
		Inspect	or Comm	nent			
Stockpiled	Stockpiled flood fight material has been removed. Fall 2018.						

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	0.01	Rating **	Α	Issue No.		14
LM End	12.57	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Vegetatio	n	39.0065	70°	38.941182°	
item				-121.3751	15 °	-121.567543°
DWR ID DWR_RD1001_03_f _ 2018_14						
		_				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_37_14_20181113_00041.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.01	Rating **	Α	Issue No.		15
LM End	12.57	Issue Type +	Ма	la Location * WS		WS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory			Start		End	
Item	Vegetatio	n	39.0065	70°	38.941182°	
пеш			-121.3751	16°	-121.567543°	
DWR ID DWR_RD1001_03_f _ 2018_15						

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1 : FA_2018_RD1001_37_15_20181113_00042.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2018.

LM Start	0.11	Rating **	С	Issue No.		2	
LM End	0.11	Issue Type +	Ma	Location *		CR	
Category	Earthen L	arthen Levee			GPS Latitude/Longitude		
Calegory				Start		End	
Item	Slope Sta	bility		39.0065	69°	39.006569 °	
item				-121.3770	37°	-121.377037 °	
DWR ID	DWR_RD1	001_03_f _ 201	3_2				

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Rutting caused by vehicles driving up the landward levee slope has been repaired and no sign of slope damage, Fall 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	1.87	Rating **	М	Issue No.		28
LM End	1.87	Issue Type +	Ma	Location *		WS
Category Earthen Levee			GPS La	atitud	e/Longitude	
Calegory			Start		End	
Item	Slope Sta	bility		38.9986	08°	38.998608°
item				-121.4055	70°	-121.405570°
DWR ID DWR_RD1001_03_s _ 2013_28						
		Comn	nent Coo	de		

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Continual damage to waterside slope caused by vehicles, suggest blocking access.



Continual damage to waterside slope caused by vehicles.

LM Start	1.87	Rating **	A/W	Issue No.		29
LM End	1.87	Issue Type +	Ма	Location *		LS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End
Item	Slope Stability			38.9986	08°	38.998608°
item					70°	-121.405570°
DWR ID DWR_RD1001_03_s _ 2013_29						

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Continual damage caused by vehicles going around the gate, has been fixed and blocks added.

Photo 1 of 1: FA_2018_RD1001_37_29_20180918_00019.jpg



Continual damage caused by vehicles going around the gate.

LM Start	2.28	Rating **	М	Issue No.		30
LM End	2.28	Issue Type +	Ma	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start End		End
Item	Slope Sta	bility		38.9963	02°	38.996302°
item				-121.4122	85 °	-121.412285°
DWR ID	DWR_RD1	001_03_s _ 201	3_30			
		_				

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Damage to landside slope by vehicles needs to be repaired, Spring 2018.

Photo 1 of 1: FA_2018_RD1001_37_30_20181113_00044.jpg



View looking at waterside where slope has been disturbed by vehicle traffic, Fall 2018.

Location + Issue Type N/A: Not Applicable Ma: Maintenance Deficiancy LS: Land Side Acceptable N : Not Inspected/Rated WS: Water Side Minimally Acceptable C : Corrected Ob : Design & System Obsolescence U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	2.59	Rating **	М	Issue No.		36	
LIVI Start	2.59	ramy	IVI	13306 140.		30	
LM End	2.59	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Trim / Thi	n Trees		38.9955	83°	38.995583°	
item				-121.417995 °		-121.417995 °	
DWR ID	DWR_RD1	001_03_s _ 201	15_36				
		Comn	nent Cod	de			
T3 : Trim a flood fight.		es to allow vi	sibility of	the ground	and	I room to	
Inspector Comment							
Tree less than 4" in diameter should be removed.							



View of a small starter tree on landside slope looking downstream that is less than 4" in diameter.

	0.50	Dating **		Issue No.		000	
LM Start	3.52	Rating **	M	issue ivo.		906	
LM End	3.52	Issue Type +	Ma	Location *		LS	
Category	evee		GPS Latitude/Longitude				
Category				Start		End	
Item	Vegetatio	egetation			'45 °	38.991745°	
item				-121.4343	98°	-121.434398 °	
DWR ID	DWR_RD1	001_03_s _ 201	12_906				
		Comn	nent Cod	de			
V4 : Elderl	V4 : Elderberries are blocking visibility and flood fight capability.						
	Inspector Comment						

No Photos

LM Start	3.57	Rating **	М	Issue No.		21	
LM End	3.57	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion / I	Bank Caving		38.9913	90°	38.991390°	
item				-121.435268 °		8° -121.435268°	
DWR ID	DWR_RD1	001_03_s _ 201	6_21				
		Comn	nent Cod	de			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spec	tion.	
Inspector Comment							



Erosion on waterside slope still remains as of Fall 2018.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	4.06	Rating **	A/W	Issue No.		24			
LM End	4.06	Issue Type +	Ma	Location *	LS				
Category	GPS La	atitud	le/Longitude						
Calegory				Start		End			
Item	Vegetatio	n		38.9913	70°	38.991370			
пеш				-121.4443	51 °	-121.444351			
DWR ID	DWR_RD1	001_03_f _ 201	6_24						
		Comn	nent Cod	de					
V4 : Elderk	erries are	blocking visib	ility and	flood fight	capa	ability.			
	Inspector Comment								
Elderberrie Spring 201		have been trir			s and	d visibility,			

No Photos

Rating ** A/W Issue No. LM Start 4.65 58 Issue Type + Location * LS 4.65 Ма LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.991551° 38.991551 ° Item -121.455092° -121.455092 ° DWR ID DWR_RD1001_03_s _ 2012_58 Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bushes have been trimmed up for access and visibility, Spring 2018.

No Photos

LM Start	4.82	Rating **	A/W	Issue No.		910		
LM End	4.82	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee	GPS Latitude/Longitude					
Start End						End		
Item	Vegetatio	n		38.9907	73°	38.990773°		
item	-121.458203 ° -121.458203 °							
DWR ID DWR_RD1001_03_s _ 2012_910								
Comment Code								

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bushes have been trimmed up for access and visibility, Spring 2018.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

FINAL DATA

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

					_			
LM Start	5.81	Rating **	С	Issue No.		32		
LM End	5.81	Issue Type +	Ma	Location *	* LS			
Category	Earthen Levee					e/Longitude		
Category				Start		End		
Item	Trim / Thi	n Trees		38.9858	882°	38.985882	0	
пеш	em				94°	-121.475394	0	
DWR ID	DWR_RD1	001_03_f _ 201	6_32					
		Comn	nent Cod	de				
T2 : Thin to	rees to allo	w visibility of	the grou	nd and roo	m to	flood fight.		
Inspector Comment								
The small starter trees less than 4" in diameter have been removed, Fall 2018.								

No Photos

LM Start	7.22	Rating **	М	Issue No.		13		
LM End	7.31	Issue Type +	Ma	Location *		WS		
Category	Suppleme	ental	GPS Latitude/Longitude					
Calegory				Start		End		
Item		ACE Erosion S	Survey,	38.9827	37°	38.982572	0	
пеш	DRAFT -121.501144 ° -121.502797							
DWR ID DWR_RD1001_03_f _ 2018_13								
	Comment Code							

Inspector Comment

2017 Site ID: BER 5.7 L

Status: Eroding

2017 Field Notes: Minor new erosion observed.

Site History: 2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm.

Photo 1 of 1: FA_2018_RD1001_37_13_20181114_00013.jpg



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	7.72	Rating **	М	Issue No.		25		
LM End	7.72	Issue Type +	Ма	Location *		WS		
Category	evee	GPS La	atitud	e/Longitude				
Calegory			Start		End			
Item	Trim / Thi		38.9803	42 °	38.980342°			
пеш				-121.5097	12 °	-121.509712°		
DWR ID	DWR ID DWR_RD1001_03_s _ 2018_25							
Comment Code								
T1 · Trim t	T1 · Trim trees to at least five feet above ground level							

Inspector Comment

Remove fallen tree from levee slope, Fall 2018.



View looking downstream waterside of a fallen tree that needs to be removed.

LM Start	8.36	Rating **	С	Issue No.		23	
LM End	8.36	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory		Start		End			
Item	Vegetatio	n		38.97390)1 °	38.973901°	
item	-121.518270 ° -121.518270						
DWR ID DWR_RD1001_03_f _ 2018_23							
Comment Code							

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Wild growth has been removed, Fall 2018.

No Photos

LM Start	9.05	Rating **	С	Issue No.		34		
LM End	9.09	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee	GPS Latitude/Longitude					
Category	Start End							
Item	Trim / Thin Trees					38.969271 °		
пеш	-121.529017 ° -121.529583							
DWR ID DWR_RD1001_03_f _ 2018_34								
	Comment Code							

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Starter willow trees have been removed from levee slope, Fall 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	9.31	Rating **	A/W	Issue No.		44						
LM End	9.31	Issue Type + Ma Location *		Issue Type + Ma Location *		Гуре + Ma Location *		/pe + Ma Location *		ype + Ma Location *		WS
Category Earthen Levee				GPS Latitude/Longitude								
Calegory				Start		End						
Item	Vegetatio	n		38.9705	76°	38.970576°						
пеш				-121.5333	34°	-121.533334°						
DWR ID DWR_RD1001_03_f _ 2016_44						·						
		_										

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bushes have been trimmed up for access and visibility.

LM Start	10.13	Rating **	С	Issue No.	31	
LM End	10.18	Issue Type +	Ma	Location *	LS	
Category Earthen Levee				GPS La	titud	le/Longitude
Calegory	Category					End
Item	Trim / Thi	n Trees		38.96768	3°	38.966864°
пеш				-121.54359	5 °	-121.543688°
DWR ID	DWR_RD1	001_03_s _ 201				
Comment Code						

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

Tree limbs have been trimmed for access and visibility, Fall 2018.

No Photos

No Photos

LM Start	10.36	Rating **	М	Issue No.		12	
LM End	10.40	Issue Type +	Ма	Location *		WS	
Category	Supplemental				GPS Latitude/Longitude		
Calegory						End	
Item		CE Erosion S	Survey,	38.9645	83°	38.964010 °	
item	DRAFT			-121.5449	67°	-121.545228 °	
DWR ID	DWR_RD1	001_03_f _ 201	8_12			·	

Inspector Comment

Comment Code

2017 Site ID: BER 2.5 L

Status: Eroding

CR : Crown

2017 Field Notes: Erosion pockets have expanded

Site History: 2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012 - Slopes slightly steeper.

2013 - Minor new erosion observed.



USACE 2013 Photo #1

* Location

LS: Land Side N/A: Not Applicable
WS: Water Side

* Rating

A : Acceptable

M : Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	11.08	Rating **	A/W	Issue No.		10	
LM End	11.16	Issue Type +	Ма	Location *	WS		
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Category				Start		End	
Item		ACE Erosion S	Survey,	38.9550	70°	38.954227 °	
пеш	DRAFT		-121.549528 °		-121.550592°		
DWR ID	DWR_RD1	001_03_f _ 201	8_10				
		Comn	nent Cod	de			
Inspector Comment							
2017 Site	ID: BER 1.	9 L					

Status: Eroding

2017 Field Notes: Minor new erosion observed.

Site History: 2011 - Large slumped sections of bank. 2012 - Slopes

slightly steeper.



USACE 2013 Photo #1

LM Start	11.23	Rating **	М	Issue No.	22		
LM End	11.26	Issue Type +	Ma	Location *	cation * LS		
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Vegetatio		38.9533	67°	38.953025 °		
item				-121.5514	28°	-121.551808 °	
DWR ID	D DWR_RD1001_03_s _ 2012_22						
	Comment Code						
V4 : Elderk	perries are	blocking visib	ility and	flood fight	capa	bility.	

Inspector Comment

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	12.07	Rating **	С	Issue No.		8			
LM End	12.16	Issue Type +	Ma	Location *		WS			
Category	Supplemental					GPS Latitude/Longitude			
Calegory			Start		End				
Item		CE Erosion S	Survey,	38.94759	91 °	38.946477°			
пеш	DRAFT			-121.56339	90°	-121.564094°			
DWR ID	DWR_RD1001_03_f _ 2018_8								
	Comment Code								

No Photos

Inspector Comment

2017 Site ID: BER 0.8 L Status: Repaired

2017 Field Notes: The 2017 floods caused additional damage to the site, however the site was repaired by locals, with a very steep rock riprap slope. The rock slope appears to be less than 1:1, some rock already appears to be failing.

Site History: 2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 -Still steep bank with some berm with pistol-butted reeds. 2012 - Site extended upstream due to additional slumping. Slopes slightly steeper.

LM Start	12.18	Rating **	М	Issue No.		27	
LM End	12.18	Issue Type +	Ma	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Vegetatio	n		38.9462	48°	38.946248 °	
пеш				-121.5642	20°	-121.564220 °	
DWR ID	DWR_RD1	001_03_s _ 201	2_27				
		Comn	nent Cod	de			
V4: Elderberries are blocking visibility and flood fight capability.						bility.	

Inspector Comment

No Photos

* Location

LS : Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally A Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.12	Rating **	С	Issue No.	31		
LM End	0.15	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS La	titud	e/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		38.93938	88°	38.938985 °	
пеш				-121.56778	32 °	-121.567772°	
DWR ID DWR_RD1001_04_s _ 2018_31							
Comment Code							

T1: Trim trees to at least five feet above ground level.

Inspector Comment

Downed tree from levee slope is removed, Fall 2018.

Issue No. Rating ** С 0.13 57 LM Start 0.13 Issue Type + Ма Location * LS LM End Earthen Levee GPS Latitude/Longitude Category End Start Vegetation 38.939219° 38.939219° Item -121.567789° -121.567789° DWR_RD1001_04_f _ 2017_57 DWR ID Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove wild growth from levee slope, Fall 2017.

No Photos

No Photos

LM Start	0.14	Rating **	С	Issue No.		3	
LM End	0.14	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
ltem Encroachments				38.9390	29°	38.939029	0
item			-121.5677	71 °	-121.567771	0	
DWR ID	DWR_RD1	001_04_s _ 201	7_3				
Comment Code							

Inspector Comment

Pruning's from hinge point have been removed, Fall 2018.

No Photos

* Location LS : Land Side

PR: Prunings

N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.17	Rating **	С	Issue No.	46	
LM End	0.17	Issue Type +	Ма	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
			Start		End	
Item	Vegetation			38.9387	15°	38.938715°
пеш			-121.5677	68°	-121.567768°	
DWR ID DWR_RD1001_04_f _ 2016_46						
Comment Code						

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Blackberry bush has been removed from the landside levee slope, Fall 2018.

LM Start	0.18	Rating **	С	Issue No.		63
LM End	0.18	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Slope Stability				38.9385	34°	38.938534°
iteiii			-121.56772	29°	-121.567729°	
DWR ID	DWR_RD1	001_04_s _ 201	6_63			

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Slope damage caused by ATV has been repaired, Fall 2018.

D-+i--- **

No Photos

No Photos

LM Start	0.20	Rating ""	C	issue ivo.		42		
LM End	0.20	Issue Type +	Ma	Location *	CR			
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory				Start		End		
Item	Encroach	Encroachments			33°	38.938233	0	
item				-121.5677	31 °	-121.567731	0	
DWR ID	DWR_RD1	001_04_s _ 201	7_42					
Comment Code								

Innua Na

PR: Prunings

CR : Crown

Inspector Comment

U : Unacceptable

Remove pruning's from fallen tree from both sides of hinge points, Spring 2017.

No Photos

En: Enforcement

* Location + Issue Type Ma : Maintenance Deficiancy LS: Land Side N/A: Not Applicable A : Acceptable M : Minimally Acceptable N: Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.37	Rating **	A/W	Issue No.		64
LM End	0.37	Issue Type +	Ma	Location *	LS	
Category Earthen Levee				GPS La	atitud	e/Longitude
Category			Start		End	
Item	Slope Stability			38.935903°		38.935903 °
item			-121.567250 °		-121.567250 °	
DWR ID	DWR_RD1	001_04_s _ 201	6_64			
		Comn	nent Cod	de		
S1 : Repai	r slope ins	tability.				
Inspector Comment						
Animal trai	I is not bei	ng used and	shows n	sign of er	osior	or or

sloughing. Fall 2017.





View looking downstream of animal trail that is not being used and shows no sign of erosion or sloughing. Fall 2018.

Photo 2 of 2: FA_2018_RD1001_38_64_20180918_00040.jpg



View looking downstream of animal trail that is not being used and shows no sign of erosion or sloughing. Spring 2017.

LM Start	0.39	Rating **	С	Issue No.		16	
LM End	0.39	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS La	atitud	le/Longitude		
Calegory				Start		End	
Item	Slope Stability			38.935519°		38.935519	
item			-121.567042 °		-121.567042		
DWR ID	DWR_RD1	001_04_f _ 201	5_16				
		Comn	nent Cod	de			
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	anc	d prevent	
		Inspecto	or Comm	nent			
Slope damage caused by ATV has been repaired, Fall 2018.							

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.49	Rating **	М	Issue No.		59
LM End	0.49	Issue Type +	Ма	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
			Start		End	
Itom	Item Trim / Thin Trees			38.9341	39°	38.934139°
пеш				-121.5670	25°	-121.567025 °
DWR ID DWR_RD1001_04_f _ 2016_59						
Comment Code						

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Trees 4" in diameter or less at chest height should be removed.

Photo 1 of 1 : FA_2018_RD1001_38_59_20180918_00034.jpg



View of three trees with diameters less than 4", landside.

LM Start	0.51	Rating **	N	Issue No.		21	
LM End	0.51	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory	Category					End	
Item	Trim / Thin Trees			38.9337	96°	38.933796°	
item				-121.5670	47°	-121.567047°	
DWR ID	ID DWR_RD1001_04_f _ 2015_21						

Comment Code

T5: Tree stumps.

Inspector Comment

Remove stump from the landside levee slope.

Photo 1 of 1 : FA_2018_RD1001_38_21_20180918_00006.jpg



View of a stump in the landside levee slope.

LM Start	0.55	Rating **	M	Issue No.		68
LM End	0.55	Issue Type +	Ma	Location *		LS
Category Earthen Levee				GPS Latitude/Longitude		
Category				Start		End
Item	Slope Sta	bility		38.9332	99°	38.933299°
пеш				-121.5670	69°	-121.567069°
DWR ID	DWR RD1	001 04 s 201	6 68			

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Repair slope damage caused by ATV, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_38_68_20180918_00047.jpg



View of ruts caused by vehicle on the landside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicab	e A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.55	Rating **	N	Issue No.		60	
LM End	0.55	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.9332	229°	38.933229°	
item				-121.567097°		-121.567097°	
DWR ID DWR_RD1001_04_f _ 2016_60							
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
		Inspecto	or Comm	nent			



View of tree stump, waterside crown at gate.

LM Start	0.55	Rating **	N	Issue No.		61	
LM End	0.55	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Category			Star			End	
Item	Trim / Thin Trees			38.933229°		38.933229°	
item				-121.567097°		-121.567097°	
DWR ID DWR_RD1001_04_f _ 2016_61							
Comment Code							

T5: Tree stumps.

Inspector Comment

Photo 1 of 1: FA_2018_RD1001_38_61_20180918_00036.jpg



View of tree stump, landside crown at gate.

LM Start	0.57	Rating **	Α	Issue No.		54	
LM End	12.35	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Vegetatio	n		38.9329	23°	38.787132°	
item			-121.567105°		-121.620586 °		
DWR ID	DWR_RD1	001_04_f _ 201	8_54				
Comment Code							

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.



View looking upstream lanside LM 11.93 of the well maintained annual vegetation, Fall 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.57	Rating **	Α	Issue No.	54 (cont)		
LM End	12.35	Issue Type +	Ma	Location *	LS		
Catagony	Earthen Levee GPS Latitude/Longitud				e/Longitude		
Category				Start		End	
Item	Vegetation			38.932923°		38.787132°	
item			-121.567105 °		05 ° -121.620586 °		
DWR ID	DWR_RD1	001_04_f _ 201	8_54				
		Comn	nent Coo	de			
V1 : Control annual grass and weeds on the levee slopes and easements.							
		Inspecto	or Comm	nent			

The annual vegetation is well maintained, Fall 2018.



View looking downstream landside LM 3.62 of the well maintained annual vegetation, Fall 2018.

LM Start	0.59	Rating **	Α	Issue No.	62	
LM End	5.13	Issue Type +	Ма	Location *	WS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Item	Vegetation			38.932617°		38.882985 °
item			-121.567123 °		-121.611210°	
DWR ID DWR_RD1001_04_f _ 2018_62						
Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1 : FA_2018_RD1001_38_62_20181114_00079.jpg

View looking downstream waterside of the well maintained annual vegetation, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_38_69_20180918_00048.jpg

LM Start	1.06	Rating **	N	Issue No.		69	
LM End	1.06	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		38.9261	28°	38.926128°	
пеш					241 °	-121.568241 °	
DWR ID	DWR ID DWR_RD1001_04_s _ 2016_69						
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
Inspector Comment							



View of landside toe of a stump that needs to be removed.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	1.07	Rating **	М	Issue No.		65	
LM End	1.07	Issue Type +	Ма	Location *	* CR		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Encroach	ments		38.9259	91°	38.925991°	
пеш				-121.5682	82°	-121.568282 °	
DWR ID	DWR_RD1	001_04_f _ 201	7_65				
		Comn	nent Cod	de			
FW : Firev	vood						
		•	or Comm	nent			
Remove firewood from levee crown.							

Photo 1 of 1 : FA_2018_RD1001_38_65_20180918_00041.jpg

View looking downstream waterside crown at firewood.

LM Start	1.51	Rating **	М	Issue No.	67		
LM End	1.51	Issue Type +	Ма	Location *		WS	
Category	evee	GPS La	atitud	e/Longitude			
Calegory				Start		End	
Item	Encroach	ments		38.919643°		38.919643°	
пеш				-121.569233 °		° -121.569233	
DWR ID	DWR_RD1	001_04_f _ 201	7_67			·	
		Comn	nent Cod	de			
PR : Pruni	ngs						
	Inspector Comment						
Remove p	Remove pruning's from levee slope.						



View looking downstream waterside of pruning's on the levee slope.

LM Start	2.44	Rating **	N	Issue No.		71
LM End	2.44	Issue Type +	Ма	Location *		LS
Earthen Levee				GPS La	atitud	e/Longitude
Category				Start		End
Item	Trim / Thi	n Trees		38.9074	66°	38.907466°
пеш				-121.5754	13°	-121.575413°
DWR ID	DWR_RD1	001_04_f _ 201	8_71			
		Comn	nent Cod	de		
T5 : Tree s	stumps.					
Inspector Comment						
Stumps should be removed from levee slope, Fall 2018.						



View looking landside at stumps from a fallen and removed tree, Fall 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	2.80	Rating **	М	Issue No.		47
LM End	2.80	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		38.9038	896°	38.903896°
пеш				-121.5802	230°	-121.580230 °
DWR ID	DWR_RD1	001_04_s _ 201	17_47			
		Comn	nent Cod	de		
T1 : Trim t	rees to at l	east five feet	above g	round level		
		Inspecto	or Comm	nent		
Trim limbs 5' for visibility, Fall 2018.						



View looking downstream where limbs need to be trimmed 5' for visibility.

LM Start	4.06	Rating **	М	Issue No.	51		
LM End	4.09	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory				Start		End	
Item	Slope Sta	bility		38.8928	20°	38.892583°	
пеш	-121.598003 ° -121.598575 °						
DWR ID DWR_RD1001_04_s _ 2017_51							
Comment Code							

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Continual vehicles driving up levee slope should be monitored and maintained, Spring 2018.

Photo 1 of 1 : FA_2018_RD1001_38_51_20180918_00031.jpg



View of continual vehicles driving up levee slope, should be monitored and maintained.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	4.60	Rating **	М	Issue No.		33	
LM End	4.65	Issue Type +	Ma	Location *		WS	
Category	Suppleme	upplemental			titud	e/Longitude	
Calegory				Start		End	
Item		CE Erosion S	Survey,	38.88912	7°	38.888603	0
пеш	DRAFT			-121.60685	8°	-121.607713	0
DWR ID	DWR_RD1	001_04_f _ 201	8_33				

No Photos

Inspector Comment

Comment Code

2017 Site ID: FHR 7.7 L Status: Eroding New

2017 Field Notes: Erosion along bank appears to be due to rapid drawdown condition. Lower bank cobbles are unraveling. Tree popout

at upstream end. Site History:

LM Start	5.15	Rating **	С	Issue No.		55	
LM End	12.19	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End		
Item	Vegetatio	n		38.8827	64 °	38.788508 °	
пеш		-121.611187 ° -121.622857					
DWR ID DWR_RD1001_04_f _ 2018_55							

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation has been mowed in this section, Fall 2018

No Photos

U : Unacceptable

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.18	Rating **	М	Issue No.		70	
LM End	5.18	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Slope Sta	bility		38.8823	01 °	38.882301 °	
item		-121.611296 ° -121.611296					
DWR ID DWR_RD1001_04_f _ 2017_70							

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Continual vehicles driving up levee slope should be monitored and maintained, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_38_70_20180918_00049.jpg



View looking downstream waterside of the slope that is damage by vehicle traffic.

LM Start	5.22	Rating **	М	Issue No.		78
LM End	5.22	Issue Type +	Ma	Location *		WS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Item	Slope Sta	bility		38.8817	68°	38.881768 °
пеш					02 °	-121.611302°
DWR ID	DWR_RD1	001_04_s _ 201	6_78			·

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Repair damage on slope cause by vehicle traffic, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_38_78_20180918_00051.jpg



Ruts still there on waterside slope due to vehicles

LM Start	5.55	Rating **	A/W	Issue No.		79		
LM End	5.55	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Vegetatio	n		38.8772	56°	38.877256	0	
item				-121.6130	73 °	-121.613073	0	
DWR ID	DWR_RD1	001_04_s _ 201	6_79					
Comment Code								

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

*	Loc	atio	n	
				_

N/A: Not Applicable

LS: Land Side WS: Water Side CR : Crown

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.61	Rating **	A/W	Issue No.		35	
LM End		Issue Type +	Ma	Location *		WS	
Category Supplemental			GPS Latitude/Longitude				
			Start		End		
Item	2017 Storm Damage			38.8763	74°		0
пеш				-121.6134	25 °		0
DWR ID DWR_RD1001_04_f _ 2017_35							
	Comment Code						

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:139

Site Designation:LMA-19 Repair Type: Erosion Rating:Area of Concern Field Date:6/6/2017

Notes: Several small erosion sites along 2 miles.

LM Start	5.61	Rating **	A/W	Issue No.	35 (cont)
LM End		Issue Type +	Ma	Location *	WS



Photo 2 of 3: LEVAL_FA_2018_139_1154.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.61	Rating **	A/W	Issue No.		35 (cont)		
LM End		Issue Type +	Ма	Location *		WS		
Category	Supplemental			GPS Latitude/Longitude				
Calegory			S		Start			
Item	2017 Stor	m Damage		38.876374°			0	
пеш	em			-121.61342	25 °		0	
DWR ID	DWR_RD1	VR_RD1001_04_f _ 2017_35						
	Comment Code							

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:139

Site Designation:LMA-19 Repair Type: Erosion Rating:Area of Concern Field Date:6/6/2017

Notes: Several small erosion sites along 2 miles.



LM Start	5.80	Rating **	A/W	Issue No.		28	
LM End	5.93	Issue Type +	Ма	Location *		WS	
Category Supplemental			GPS Latitude/Longitude				
Category		Start		End			
Item		CE Erosion S	Survey,	38.8741	13°	38.872373 °	
itein	DRAFT			-121.6153	80°	-121.616504°	
DWR ID DWR_RD1001_04_f _ 2018_28							
Comment Code							

Inspector Comment

2017 Site ID: FHR 6.6 L

Status: Eroding

2017 Field Notes: Sandy bank slope is unraveling.

Site History: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013 - Scallops from tree popouts no longer visible on site. Minor new erosion at the middle of the bank.

2015 - Fres erosion from human usage.





USACE 2013 Photo #1

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	6.42	Rating **	U	Issue No.	18		
LM End	6.51	Issue Type +	Ma	Location *	WS		
Supplemental			GPS Latitude/Longitude				
Calegory				Start		End	
Item		ACE Erosion S	Survey,	38.8658	75 °	38.864706°	
пеш	DRAFT			-121.6199	83°	-121.620813°	
DWR ID DWR_RD1001_04_f _ 2018_18					·		
	Comment Code						

Inspector Comment

2017 Site ID: FHR 6.0 L

Status: Critical

2017 Field Notes: Upgraded to critical, entire bank slope is slumping,

with near vertical face

Site History: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2016 - Recent large slope failure observed.



USACE 2013 Photo #1

LM Start	6.57	Rating **	A/W	Issue No.		15
LM End	6.77	Issue Type +	Ma	Location *	WS	
Category			GPS Latitude/Longitude			
Calegory				Start		End
Item		CE Erosion S	Survey,	38.8639	46°	38.861558°
пеш	DRAFT			-121.6213	88°	-121.623316 °
DWR ID	WR ID DWR_RD1001_04_f _ 2018_15					
Comment Code						

Inspector Comment

2017 Site ID: FHR 5.8 L

Status: Eroding

2017 Field Notes: slope is not stable enough to maintain vegetation

growth, new erosion

Site History: 2011 - Large slumped sections on the lower bank. 2012 -

New cracks observed.

Photo 1 of 1: FA_2018_RD1001_38_15_20181114_00030.jpg



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	7.06	Rating **	М	Issue No.	40		
LM End	7.06	Issue Type +	Ма	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Calegory	legory					End	
Item	Slope Sta	bility		38.8577	97°	38.857797°	
пеш				-121.6259	12°	-121.625912°	
DWR ID DWR_RD1001_04_s _ 2018_40							
	Comment Code						

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Repair tire ruts on levee slope.



View looking downstream waterside at deep tire ruts in levee slope.

LM Start	7.08	Rating **	A/W	Issue No.		52	
LM End	7.08	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End	
Item	Vegetatio	getation			74°	38.857574°	
пеш				-121.6260	83°	-121.626083°	
DWR ID	DWR_RD1	001_04_s _ 201	7_52				

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

No Photos

LM Start	7.32	Rating **	С	Issue No.		45	
LM End	7.32	Issue Type +	Ma	Location *		LS	
Category	GPS La	atitud	e/Longitude				
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.8543	24°	38.854324 °	
-121.627970° -121.62							
DWR ID DWR_RD1001_04_s _ 2018_45							
Comment Code							

T1: Trim trees to at least five feet above ground level.

Inspector Comment

Limbs are trimmed for access and visibility, Fall 2018.

No Photos

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	7.47	Rating **	U	Issue No.	ue No. 14		
LM End	7.79	Issue Type +	Ма	Location *	WS		
Category				GPS Lat	itud	e/Longitude	
Calegory	ategory					End	
Item		CE Erosion S	Survey,	38.85239	4 °	38.848004°	
пеш	DRAFT		-121.62923	1 °	-121.630873 °		
DWR ID DWR_RD1001_04_f _ 2018_14							
	Comment Code						

Inspector Comment

2017 Site ID: FHR 5.0 L

Status: Critical

2017 Field Notes: Upgraded to critical, significant new erosion, entire bank slope is vertical with non cohesive soils.

Site History: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013 - Minor new erosion at the toe and top of bank.



USACE 2013 Photo #1

LM Start	7.60	Rating **	A/W	Issue No.		36
LM End	7.60	Issue Type +	Ma	Location *	WS	
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Erosion /		38.8505	21 °	38.850521 °	
-121.629423 ° -121.629423						
DWR ID DWR_RD1001_04_f _ 2015_36						
Comment Code						

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Ramp has vertical cut into the levee prism.

Photo 1 of 1: FA_2018_RD1001_38_36_20180918_00019.jpg

View of vertical cut for ramp in the landside levee slope looking upstream.

09/21/2016

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	8.57	Rating **	A/W	Issue No.		13	
LM End	8.97	Issue Type +	Ma	Location *	WS		
Category	ental	GPS La	titud	le/Longitude			
Category	Category					End	
Item		CE Erosion S	Survey,	38.8369	66°	38.831498	0
пеш	DRAFT			-121.63412	28°	-121.636371	0
DWR ID DWR_RD1001_04_f _ 2018_13							
	Comment Code						

Inspector Comment

2017 Site ID: FHR 3.8 L Status: Eroding

2017 Field Notes: New erosion along lower slope

Site History: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013 - New erosion observed at bank toe. Trees on site now have exposed roots.



USACE 2013 Photo #1

LM Start	8.65	Rating **	A/W	Issue No.		12		
LM End	8.72	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	Category					End		
Itom	Vegetation			38.8357	66°	38.834778 °		
-121.633966 ° -121.63431						-121.634316 °		
DWR ID DWR_RD1001_04_s _ 2012_12								
	Comment Code							

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	11.05	Rating **	A/W	Issue No.	22		
LM End	11.11	Issue Type +	Ма	Location *	LS		
Catagony	evee		GPS La	atitud	e/Longitude		
Calegory	Category			Start		End	
Item	Vegetation			38.8028	75°	38.802000°	
пеш				-121.6328	62 °	-121.632763°	
DWR ID	DWR_RD1	001_04_s _ 201	2_22				
	Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.							

Elderberries bush has been trimmed for access and visibility, Spring 2018.

Inspector Comment

Photo 1 of 1 : FA	_2018_RD1001	_38_10_2018111	14_00007.jpg
	***		A. C.
Patrick Control of the Control of th	1	4年13世	
Contraction of the Contraction o			

Rating ** Issue No. 11.18 М 10 11.37 Issue Type + Location * WS Ma Supplemental GPS Latitude/Longitude Start End 2017 USACE Erosion Survey, 38.800920° 38.798165 DRAFT -121.633050° -121.631939 ° DWR_RD1001_04_f _ 2018_10 Comment Code

Inspector Comment

2017 Site ID: FHR 1.0 L

Status: Eroding

LM Start

LM End

Category

Item

DWR ID

2017 Field Notes: Significant new erosion along lower bank.

Site History: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 -Some new block failures (10ft deep) at the toe of the upstream end. 2007 - Some minor new slumping at the waterline. 2013 - Minor new erosion along the bank toe



No Photos

USACE 2013 Photo #1

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	11.24	Rating **	A/W	Issue No.		23			
LM End	11.24	Issue Type +	Ma	Location *		LS			
Category Earthen Levee				GPS La	atituc	de/Longitude			
Calegory				Start		End			
Item	Vegetatio	Vegetation			74°	38.800174	0		
пеш		-121.6322	27°	-121.632227	0				
DWR ID	DWR_RD1001_04_s _ 2012_23								
Comment Code									
V/4 . Elsland	VA - Eldowhousing and blooking visibility and flood fight and bilty.								

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

Dhoto 1 of 1 . TA	2010	DD1001	20 0	20101111	00000 ina
Photo 1 of 1 : FA	2018	RUTUUT	38 Y	20181114	00002.jpg

No Photos



USACE 2013 Photo #1

LM Start	11.59	Rating **	М	Issue No.		9
LM End	11.75	Issue Type +	Ma	Location *		WS
Category				GPS Latitude/Longitude		
Calegory				Start		End
Item		CE Erosion S	Survey,	38.7954	55 °	38.793394°
item	DRAFT	DRAFT			03 °	-121.628156°
DWR ID	DWR_RD1	001_04_f _ 201	8_9			

Comment Code

Inspector Comment

2017 Site ID: FHR 0.6 L

Status: Eroding

2017 Field Notes: Further toe erosion, with sections of sand deposition. Site History: 1997- Deposits over top of cobble on the upper slope. 2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion. 2012 - Minor new erosion at toe, new slumping, animals holes and cracks observed.

N/A: Not Applicable LS: Land Side WS: Water Side

A: Acceptable Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	11.75	Issue No.		50			
LM End	11.75	Issue Type +	Ma	Location *	tion * WS		
Category Earthen Levee				GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Slope Sta	bility		38.7936	83°	38.793683 °	
пеш			-121.6277	42 °	-121.627742 °		
DWR ID	DWR_RD1	001_04_f _ 201	7_50				
Comment Code							

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Damage caused by vehicles has been repaired, Fall 2018.

Photo 1 of 1 : FA_2018_RD1001_38_56_20181114_00087.jpg

No Photos



View of landside levee slope of rodent holes that need t be properly backfilled, Fall 2018.

LM Start	11.92	Rating **	М	Issue No.		56
LM End	11.92	Issue Type +	Ма	Location *		LS
Category	evee	GPS La	titud	le/Longitude		
Calegory				Start		End
Item	Animal Control			38.79169	96°	38.791696°
item			-121.62586	62°	-121.625862°	
DWR ID	DWR_RD1001_04_f _ 2018_56					

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes need to be properly backfilled, Fall 2018.

Rating ** Issue No. LM Start 12.20 39 Issue Type + Location * WS 13.21 Ма LM End Earthen Levee GPS Latitude/Longitude Category End Vegetation 38.788492° 38.781446 Item -121.622835 ° -121.606547 ° DWR ID DWR_RD1001_04_f _ 2018_39

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.



View looking upstream waterside of the well maintained annual vegetation, Fall 2018.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintanance Deficiancy Ob: Design & System Obsolescence
C: Corrected Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	12.32	Rating **	A/W	Issue No.		24		
LM End	12.41	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
				Start		End		
Item	Vegetatio	n		38.7873	55°	38.786507	0	
пеш				-121.621165 °		-121.619837	0	
DWR ID	DWR_RD1	DWR_RD1001_04_s _ 2012_24						
		Comn	nent Cod	de				
V4 : Elderb	perries are	blocking visit	ility and	flood fight	сара	ability.		
		Inspecto	or Comm	nent				
Elderberrie 2018.	es bush ha	s been trimm	ed for ac	cess and v	isibil	ity, Spring		

No Photos

Rating ** С Issue No. LM Start 12.35 44 Issue Type + Ма Location * LS LM End 13.21 Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.787132° 38.781444° Item -121.620587° -121.606549 ° DWR ID DWR_RD1001_04_f _ 2018_44 Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation has been mowed in this section, Fall 2018.

No Photos

LM Start 12.65 Rating ** A/W Issue No. 26 Issue Type + Location * 13.14 LS LM End Earthen Levee GPS Latitude/Longitude Category End Start Vegetation 38.784513° 38.781862° Item -121.616045° -121.607855° DWR ID DWR_RD1001_04_s _ 2012_26 Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

No Photos

* Location LS: Land Side WS: Water Side

N/A: Not Applicable

A : Acceptable M : Minimally A Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

		5 11 44					_
LM Start	12.67	Rating **	A/W	Issue No.		11	
LM End	13.12	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetation			38.7845	79°	38.782150	0
item				-121.615689 °		-121.607918°	
DWR ID	DWR_RD1	001_04_f _ 201	3_11				
		Comn	nent Cod	de			
V4 : Elderk	perries are	blocking visit	oility and	flood fight	сара	bility.	
		Inspect	or Comm	nent			
Elderberries bush has been trimmed for access and visibility, Spring 2018.							

LM Start	12.82	Rating **	М	Issue No.	151		
LM End	12.82	Issue Type +	Ма	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Trim / Thin Trees			38.7839	30°	38.783930°		
пеш				-121.612952 °		-121.612952°	
DWR ID	DWR_RD1	001_04_s _ 201	2_151				
		Comn	nent Cod	de			
T1 : Trim t	rees to at l	east five feet	above g	round level.			
		Inspecto	or Comm	nent			
Trim tree li	mbs for a	ccess and visi	bility, Fa	II 2018.			



Page 1 of 4

Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	0.00	Rating **	Α	Issue No.		12			
LM End	5.38	Issue Type +	Ма	Location *		LS			
Category Earthen Levee			GPS Latitude/Longitude						
Calegory						End			
Item	Vegetation			38.78123	31 °	38.831047°			
пеш					50°	-121.529827°			
DWR ID	VR ID DWR_RD1001_05_f _ 2018_12								
Comment Code									
V/4 O (-	. 1	V4. Operation and appropriate the large standard and							

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_39_12_20181114_00019.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.00	Rating **	Α	Issue No.		14
LM End	5.38	Issue Type +	Ma	Location *	WS	
Category Earthen Levee			GPS Latitude/Longitude			
Category			Start		End	
Item	Vegetatio	n		38.7812	31 °	38.831047°
пеш				-121.6054	50°	-121.529827°
DWR ID	DWR_RD1	8_14				
Comment Code						

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_39_14_20181114_00021.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

LM Start	1.78	Rating **	М	Issue No.		5		
LM End	1.85	Issue Type +	Ma	Location *	WS			
Category	Suppleme	ental		GPS La	titud	e/Longitude		
				Start		End		
ltom	2017 USACE Erosion Survey,			38.7990	37°	38.799733		
Item	DRAFT			-121.5827	06°	-121.581585		
DWR ID	DWR_RD1	001_05_f _ 201	8_5					
Comment Code								

Inspector Comment

2017 Site ID: NCC 1.9 L Status: Eroding New

2017 Field Notes: Erosion along

bank. Site History:

n along m	nid hank an	d sections	of slumped

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	2.24 Rating ** M			Issue No.		6	
LM End	2.34	2.34 Issue Type + Ma Location *				WS	
Category	Suppleme	GPS La	atitud	e/Longitude			
Calegory			Start		End		
Item	2017 USACE Erosion Survey, DRAFT			38.8033	27°	38.804206	0
пеш				-121.5759	93°	-121.574529	0
DWR ID	DWR_RD1	001_05_f _ 201	8_6				
Comment Code							
							_

No Photos

Inspector Comment

2017 Site ID: NCC 2.4 R

Status: Eroding

2017 Field Notes: Site renamed, previously mislabeled as NCC 3.0.

Erosion along mid bank slope.

Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.4. 2016 - Site extended downstream. Slumping of entire meiddle levee section.

LM Start	2.31	Rating **	М	Issue No.	11				
LM End	2.34	Issue Type +	Ma	Location *	WS				
Category	Suppleme	GPS La	titud	le/Longitude					
Calegory				Start		End			
Itom	ltem 2017 USACE Erosion Survey, DRAFT			38.80387	7°	38.804206	٥		
пеш				-121.57505	i3°	-121.574529	0		
DWR ID	DWR_RD1	001_05_f _ 201	8_11						
	Comment Code								

No Photos

Inspector Comment

2017 Site ID: NCC 3.0 R

Status: Eroding

2017 Field Notes: Site is part of the extended inventory, last inspected 2011.

Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5.

N/A: Not Applicable LS: Land Side WS: Water Side

A: Acceptable Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	2.68	Rating **	М	Issue No.	sue No.		
LM End	3.13	Issue Type +	Ma	Location * WS			
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		CE Erosion S	Survey,	38.8071	80°	38.811122	0
пеш	DRAFT			-121.5695	23 °	-121.562873	0
DWR ID	DWR_RD1	001_05_f _ 201	8_9				
		Comn	nent Coc	le			

Inspector Comment

2017 Site ID: NCC 2.9 R Status: Eroding New

2017 Field Notes: Hummocky levee face, slumping upper bank.

Site History: 2016 - Slumping of upper bank slope.

No Photos

LM Start	5.05	Rating **	A/W	Issue No.		8
LM End	5.06	Issue Type +	Ма	Location *		
Category	Suppleme	ental	GPS Latitude/Longitude			
Calegory			Start		End	
Item	2017 Stor	m Damage		38.82810	0°	38.828188 °
itein				-121.53474	0°	-121.534625 °
DWR ID	DWR_RD1	001_05_f _ 201	7_8			

Inspector Comment

Comment Code

Levee Evaluation Comments Description: Site ID No:493

Site Designation:RD 1001-03 Repair Type: Erosion

Rating:Serious Field Date:7/17/2017

Notes: Serious per senior review

Photo 1 of 3: LEVAL_FA_2018_493_1759.jpg



LS : Land Side N/A: Not Applicable WS: Water Side

Thursday, December 27, 2018 09:54

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	5.05	Rating **	A/W	Issue No. 8 (cont)		
LM End	5.06	Issue Type +	Ма	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory		Start		End		
Item	2017 Stor	m Damage		38.82810	00°	38.828188 °
пеш				-121.53474	40 °	-121.534625 °
DWR ID	R ID DWR_RD1001_05_f _ 2017_8					
Comment Code						

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:493 Site Designation:RD 1001-03 Repair Type: Erosion

Rating:Serious Field Date:7/17/2017

Notes: Serious per senior review

LM Start	5.05	Rating **	A/W	Issue No.	8 (cont)
LM End	5.06	Issue Type +	Ma	Location *	



Photo 3 of 3: LEVAL_FA_2018_493_1763.jpg



CR : Crown

LS : Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

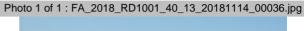
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	0.00	Rating **	Α	Issue No.		13	
LM End	4.73	Issue Type +	Ма	Location *		LS	
Category	evee	GPS La	atitud	e/Longitude			
Calegory	Salegory					End	
Item	Vegetatio	38.831102°		38.896349°			
item				-121.5297	33 °	-121.520442°	
DWR ID	DWR ID DWR_RD1001_06_f _ 2018_13						
Comment Code							
V1 : Control annual grass and weeds on the levee slopes and							

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.





View looking upstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.00	Rating **	Α	Issue No.	Issue No. 14		
LM End	4.73	Issue Type +	Ма	Location *		WS	
Category	evee	GPS La	atitud	le/Longitude			
Calegory				Start		End	
Item	Vegetatio	n		38.8311	02°	38.896349°	
пеш				-121.5297	33°	-121.520441 °	
DWR ID DWR_RD1001_06_f _ 2018_14							

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1: FA_2018_RD1001_40_14_20181114_00037.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	2.05	Rating **	A/W	Issue No.	8		
LM End	2.05	Issue Type +	Ma	Location *	CR		
Category	evee	GPS L	atitud	le/Longitude			
Calegory				Start		End	
Item		epressions / 38.86000		002°	38.860002°		
пеш	Rutting			-121.5248	373°	-121.524873°	
DWR ID	DWR_RD1	001_06_s _ 201	12_8				
		Comn	nent Cod	de			
C2 : Repair depressions or ruts in the crown or slope.							
Inspector Comment							

Crown where there is cross traffic. Monitor this area and fix as needed.



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

LM Start	4.04	Rating **	A/W	Issue No.		7		
LM End	4.04	Issue Type +	Ма	Location *		CR		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item		rface / Depres	ssions /	38.8888	03°	38.888803°		
item	Rutting			-121.5247	38°	-121.524738°		
DWR ID	DWR_RD1	001_06_s _ 201	2_7					
		Comn	nent Cod	de				
C2 : Repai	C2 : Repair depressions or ruts in the crown or slope.							
Inspector Comment								
Crown where there is cross traffic. Monitor this area and fix as needed.								



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	4.33	Rating **	A/W	Issue No.	Issue No. 19		
LM End	4.33	Issue Type +	Ma	Location *	CR		
Category	evee	GPS Latitude/Longitude					
Calegory			Start		End		
Itom		rface / Depres	ssions /	38.8929	99°	38.892999 °	
item	Rutting			-121.5247	11 °	-121.524711 °	
DWR ID	DWR_RD1001_06_f _ 2013_19						
Comment Code							

C2: Repair depressions or ruts in the crown or slope.

Inspector Comment

Crown where there is cross traffic. Monitor this area and fix as needed.



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

LM Start	4.38	Rating **	С	Issue No.	22		
LM End	4.38	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Trim / Thi	n Trees		38.893728°		38.893728°	
item			-121.524715°		-121.524715°		
DWR ID	DWR_RD1001_06_f _ 2016_22						
Comment Code							
TE : Trop of tumps							

T5: Tree stumps.

Inspector Comment

A stump at the landside levee toe has been removed, Fall 2018.

No Photos

LM Start	4.48	Rating **	М	Issue No.		17	
LM End	4.48	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Trim / Thin Trees			38.895234°		38.895234°	
item				-121.5245	14 °	-121.524514°	
DWR ID	DWR_RD1001_06_f _ 2017_17						
Comment Code							
T1 : Trim trees to at least five feet above ground level.							

Inspector Comment

Trim tree limbs for access and visibility, Fall 2018.



View looking upstream landside at trees that need to be trimmed for access and visibility.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	4.71	Rating **	М	Issue No.		24	
LM End	4.71	Issue Type +	Ma	Location * LS		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroachments			38.896310°		38.896310°	
item			-121.520674°		-121.520674°		
DWR ID	DWR_RD1001_06_f _ 2016_24						
Comment Code							
DE : Debris							
Inspector Comment							
Old peace of pipe still lying on landside levee slope, Fall 2018.							

LM Start	4.71	Rating **	М	Issue No.	24 (cont)
I M End	4.71	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2018_RD1001_40_24_20181114_00041.jpg

View of an old peace of pipe still lying on landside levee slope looking downstream. Fall 2018.

Photo 2 of 2: FA_2018_RD1001_40_24_20180918_00008.jpg



View of an old peace of pipe lying on landside levee slope looking upstream. Fall 2017.